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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

1 10, 2001

NIXON & VANDERHYE P.C. LEONARD C. MITCHARD 1100 NORTH GLEBE ROAD

8TH FLOOR

ARLINGTON, VA 22201

PTAS



101697551A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/23/2001

REEL/FRAME: 011736/0481

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GARMAN, ANDREW J.

DOC DATE: 04/04/2001

ASSIGNEE:

ASTRAZENECA AB S-151 85 SODERTALIE SWED

SODERTALJE, SWEDEN

· SERIAL NUMBER: 09763827

PATENT NUMBER:

FILING DATE: 04/23/2001

ISSUE DATE:

SAUNDRA BALLENGER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

05-02-2001

101697551

Rec'd PCT/PTO 23 APR 2001

U.S. Department of Commerce Patent and Trademark Office

09/763827 Our Ref.: 3764-78

PATENTS ONLY

RECORDATION FORM COVER SHEET

Commissioner of Patents and Trademarks

Box Assignment, Washington, D.C. 20231 To the Honorable Commissioner of Patents and Trademarks: P	Please record the attached original documents or conv thereof				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):				
Andrew J. Garman					
	Name: AstraZeneca AB				
	Internal Address:				
	Street Address: S-151 85				
Additional name/s of conveying party/ies attached?					
3. Nature of conveyance:	City: Sodertalje				
	State/Country: Sweden				
Security Assignment Change of Name	Zip:				
Other					
	-				
Execution Date: April 4, 2001	Additional name/s & address/es attached? Yes No				
4. Application number(s) or patent number(s):					
If this document is being filed together with a new application, the exec	ution date of the application is:				
A. Patent Application No(s).	B. Patent No(s).				
(1) 09/763,827	(1)				
(2)	(2)				
(3)	(3)				
Additional numbers	s attached Yes No				
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved: 1				
concerning document should be mailed:					
	7. Total fee (37 CFR 3.41) \$40.00				
Name: Leonard C. Mitchard	_ Enclosed				
*	Authorized to be charged to deposit account #14-1140				
Internal Address:	-				
Street Address No. 1 1 D.C.	8. The Commissioner is hereby authorized to charge any				
Street Address: Nixon & Vanderhye P.C.	deficiency in the fee(s) filed, or asserted to be filed, or which				
1100 North Glebe Road	should have been filed herewith (or with any paper thereafter				
8 th Floor	filed in this application by this firm) to our Account No.				
City: Arlington State: VA Zip: 22201	_ 14-1140.				
DO NOT U	USE THIS SPACE				
9. Statements and signature.					
To the best of my knowledge and helief, the foregoing infor-	mation is true and correct and any attached copy is a true copy				
of the original document.	mander is a de and correct and any attached copy is a time copy				
/ _]	•				
Leonard C. Mitchard	April 23, 2001				
Name of Person Signing Signature Date					
Reg. No. 29,009	·				
Total number of pages including or	iginal cover sheet, attachments, and document: [3]				
/2001 MNGUYEN 00000114 09763827					
1					
:581 40.00 OP /					

ASSIGNMENT FOR PATENT APPLICATION (All Rights)

WHEREAS, ANDREW JOHN GARMAN, (hereinafter Assignor of) Alderley Park, Macclesfield, Cheshire, SK10 4TG, United Kingdom, respectively, has invented a certain improvement in DEVICE COMPRISING A MICROFABRICATED DIFFUSION CHAMBER for which a so-entitled application for Letters Patent of the United States is being concurrently executed herewith; was filed in the United States Patent and Trademark Office on under Serial No.

WHEREAS, AstraZeneca AB (hereinafter ASSIGNEE), a corporation of the State of Sweden, having an office and place of business at S-151 85, Sodertalje, Sweden is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres; and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and

agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

Witnessed by:

Name:

käkäitii.

ANDREW JOHN GARMAN

Date:

FOR	FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER								
	V 11-20	000)			3764-78				
	TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)								
CONCERNING A FILING UNDER 35 U.S.C. 371 09/763,827									
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED									
<u> </u>	PCT/GB99/03374 11 Oct ber 1999 13 Oct b r 1998 0 1								
1	DEVICE COMPRISING A MICROFABRICATED DIFFUSION CHAMBER								
APF	²LIC <u></u> A	ANT(S) FOR			E was				
				GARMAN	The state of the s				
App	licant	t herewith su	ubmits to the Unite	ed States Designated/Elected Office (DO/	(EO/US) the following items and other information:				
1.				of items concerning a filing under 35 U.S					
2.	\boxtimes	This is a S	SECOND or SUBS	SEQUENT submission of items concerning	g a filing under 35 U.S.C. 371.				
3.		This is an		to begin national examination procedures	(35 U.S.C. 371(f). The submission must include				
4.		The U.S. h	nas been elected !	by the expiration of 19 months from the pr	riority date (Article 31).				
5.	A co			ation as filed (35 U.S.C. 371(c)(2)).					
	a.	_		quired only if not communicated by the Into	ernational Bureau).				
	b.			ed by the International Bureau.					
	c.				Receiving Office (RO/LIS)				
6.		— Square as the appropriate was med in the crimed states necessing office (No/os).							
	a.								
	b.								
7.									
	a.	_		equired only if not communicated by the Ir					
	b.	_		ited by the International Bureau.	nemalional bureauj.				
	c.								
	d. have not been made and will not be made.								
8.	_								
9.	The distribution of the di								
10.					aliminant Symmination Papert under DCT				
	10. A English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).								
Items 11 To 20 below concern document(s) or information included:									
11. An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.									
12.	An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.								
13.	☐ A FIRST preliminary amendment.								
14.		A SECONE	O or SUBSEQUEN	NT preliminary amendment.					
15.	<u> </u>								
16.		A change o	of power of attorne	ey and/or address letter.					
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.								
18.	A second copy of the published international application under 35 U.S.C. 154(d)(4).								
19.									

20. Other it ms or information.

U.S. APPLICATION NO. (If ki		.R. 1.5)	INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER				
21. X The following for	ees are suhm	itted:	PCT/GB99/03374				3764-78		
BASIC NATIONAL	FEE (37 C.F.	R. 1 492(a)(1)-(5):			10	CALCULATIONS	PT	O USE ONLY
BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO									
USPTO but Inter	national Sear	ination fee (ch Report pr	37 C.F.R. 1.482) not paid to p	0					
but international	search fee (3°	iination fee (; 7 C.F.R. 1.44	37 C.F.R. 1.482) not paid t 45(a)(2)) paid to USPTO	o USPTO					
but all claims did	not satisfy pr	ination fee (3 ovisions of P	37 C.F.R. 1.482) paid to U: PCT Article 33(1)-(4)	SPTO					
I mremational preli	minary exam	ination too /?	37 C.F.R. 1.482) paid to US Article 33(1)-(4)						
			ENTER APPROPRIATE	BASIC FEE AM		s	Ó.00		
months from the earliest CLAIMS	claimed prior NUMBER	nty date (37 (claration later than 20 C.F.R. 1.492(e)).			s	0.00		
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Independent Claims	3	-3 -	0		8.00	S	0.00		
MULTIPLE DEPENDENT	CLAIMS(S)	/if applicable	0		0.00	Ш	0.00		
			TOTAL OF AD	\$270.00)	S	0.00		
Applicant claims sm	nall entity stat	us. See 37	CFR 1.27. The fees indica	OVE CALCULA	rions =	S	0.00		
are reduced by 1/2.				led above			0.00	ļ	
Processing fee of \$130.0	O for furnish			SUBT	OTAL =	s	0.00	┢	
Processing fee of \$130.00, for furnishing the English Translation later than 20 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).						П			
				TAL NATIONA	I FFF -	s	0.00 0.00	├—	
accompanied by an appro	losed assign	ment (37 C.F					0.00	-	
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property + Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 - Small Entity = \$620.00)					+	s	40.00	İ	
- CC 10/ 1 CITATION TO MEVIVE	Unintentiona	illy Abandon	ed Application (\$1240.00 -	Small Entity = S	620.00)	S	0.00	\vdash	
			TOT	AL FEES ENCL	OSED =	S	40.00		
						Ar	mount to be:		
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 a. \(\subseteq \) A check in the amount of \$40.00 to cover the above fees is enclosed. b. \(\subseteq \) Please charge my Deposit Account No. 14-1140 in the amount of \$\subseteq \) to cover the above fees. c. \(\subseteq \) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed. d. \(\subseteq \) The entire content of the foreign application(s), referred to in this application is/are hereby incorporated by reference in this application. 									
NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.									
SEND ALL CORRESPON	DENCE TO:			10	mu	1		7	
VIXON & VANDERHYE P.C.									
1100 North Glebe Road, 8	th Floor								
Arlington, Virginia 22201-4	714			\smile					
Telephone: (703) 816-4000	J			Leonard C. M	litchard				
				NAME					
				29,009 REGISTRATION	N NI MAREC		April 23, 200	11	
					THOMBER	<u> </u>	Date		

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Patent and Address: ASS Box PCT Washingto

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09/763827		MED APPLICANT	ATTY, DUCKET NO.
·	GARMAN	_A	3764-78
NIXON & VANDERHYE 1100 NORTH GLEBE ROAD 8TH FLOOR		INTE	INATIONAL APPLICATION NO.
ARLINGTON, VA 22201		F	CT/GB99/03374
		I.A. FILIN	
		ļ L	
NOTERIO		DATE MAILED:	2º MAR 213(PCT 98
NOTIFICATION OF MISSING REQUIRE STATES DESIGNATED	MENTS UNDE	R 35 U.S.C. 371 I	N THE UNITED
1. The following items have been submitted by the apolic	ELECTED OFF	TCE (DO/EO/US)	
a Designated Office (37 CFR 1.494),	and O1 (1) (1) (1) (1)	me United States Pa	itent and Trademark Office
an Elected Office (37 CFR 1 405)		DOC	KETED
U.S. Basic National Fee.			21/11/78
Copy of the international application in:	C	LT/MATTER#	1100/01
English.	10.0		11/2/101
Translation of the international application into Ex-		ハル・ロムル アル	711 22/00/
Gran or Declaration of inventors(s) for DOVEOUR		INVL DEVOL	15Sept 22,001
Copy of Article 19 amendments	L	OCKETED (A)	MUK / 1/19)
Translation of Article 19 amendments into Factor			
The international Preliminary Examination Description		s Annexes, if any	
		n Report into Engli	sh,
Preliminary amendment(s) filed 27 FEB 200 Information Disclosure Statement(s) filed	1 and		
Assignment document.	an	d	·
Power of Attorney and/or Change of Address			
Substitute specification filed			
☐ Verified Statement Claiming Small Enrice Statement	··		
C PROTIC Deciment			
Copy of the International Search Report and copi	es of the referer	ices cited therein.	
The following items MUST be furnished within the part			
The following items MUST be furnished within the periodeceptance under 35 U.S.C. 371:	id set forth belo	w in order to compl	ete the requirements for
1 1a. Translation of the application into Contact Ac-	a ntoressino too	will be seen in a te	
appropriate 20 or 30 months from the priority date.	Triceiig icc	war ic required it	submitted later than the
The current translation is defective for Translation.	the reasons in	licated on the atta	iched Notice of Defection
D. Processing fee for providing the translation of a			The same of Beleening
b. Processing fee for providing the translation of the 30 months from the priority date (37 CFR 1.492(f)).	application and/	or the Annexes late	r than the appropriate 20 or
C. Uall) or declaration of the investment in the	_	407(a) and (b) :	
the International application number and international	filing date.	.437(a) and (b), Ide	entitying the application by
The current oath or declaration does not con on the attached PCT/DO/EO/917.	ply with 37 CFI	R 1.497(a) and (b)	for the reasons indicated
d. Surcharge for providing the coath or doctoral.		,	THE PERSONAL PROPERTY.
(37 CFR 1.492(e)).	r than the appro	priate 20 or 30 mo	nths from the priority date
Additional claim fees of \$	_		
im fee, are required. Applicant must submit the additional See attached PTO-875.	claim fees or ca	my, metuding any i incel the additional	equired multiple dependent
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OM THE DATE OF THIS NOTICE OR BY 21 OR LE APPLICATION, WHICHEVER IS LATER. FAILLE	31 MONTH	S FROM THE DD	MITHIN ONE MONTH
E APPLICATION, WHICHEVER IS LATER. FAILU ANDONMENT.	KE TO PROPE	ERLY RESPOND	WILL RESULT IN
time period set above may be extended by filing a petition $R(1,130a)$.	and fee for exte	ension of time wel-	r the province con
Franslation of the Amexes MUST be submitted no later the processing fee will be required if submitted later than 30	it tha tios :		
processing fee will be required if submitted hater than 30. The Article 19 amendments are consistent aircraft.	n me une perio months from de	d set above or the a	mexes will be cancelled.
J The Afficie 19 amendments are more than	Ittiali lik	in orny date. Vided by the assess	mine. In 122 com
licant is reminded that any communication to the United Sta ess given in the heading and include the U.S. application o	ites Pateur aust a	Paul Leser	
A COPY Of this notice MI/ST he return	mad wist	48.2.	
osed:	neu with	unis respons	e.
CT/DO/EO/917 Notice of Defension	- 1	11/2-	
■ Notice of Deferrive	Franslation \	PAT	
CT/DO/EO/917	Franslation _	Franc	ine Young

RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the at matter which is claimed and for which a patent is sought on the invention entitled: DEVICE COMPRISING A MICROFABRICATED DIFFUSION CHAMBER

the specification of which (check	applicable box(s)):				
is attached hereto was filed on		11 0 4			
was filed on was filed as PCT Internatio	nal application No.	as U.S. Applica PCT/GB99/03374		11 October 199	20
and (if applicable to U.S. or PCT a			on	11 October 19:	99
	•		End and Ending in the	, di - At - -	
I hereby state that I have reviewed amendment referred to above. I a 37 C.F.R. 1.56. I hereby claim for below and have also identified bel priority is claimed or, if no priority Priority Foreign Application(s):	acknowledge the duty reign priority benefits low any foreign applic	to disclose information which under 35 U.S.C. 119/365 of ation for patent or inventor's filing date of this application	th is material to the pa any foreign application certificate having a file	tentability of this n(s) for patent or ing date before t	application in accordance with inventor's certificate listed hat of the application on which
Application Number 9822242.5		Country		Day/r	Month/Year Filed
9822242.5		GB			13.10.1998
I hereby claim the benefit under 3 Application Number	5 U.S.C. §119(e) of a	ny United States provisiona Date/Month/Year		elow.	
I hereby claim the benefit under 3 subject matter of each of the claim U.S.C. 112, I acknowledge the duapplications and the national or P	ns of this application i ity to disclose materia	is not disclosed in such prio Il information as defined in 3	applications in the ma	anner provided b	y the first paragraph of 35
Prior U.S./PCT Application(s):					Status: patented
Application Serial No.		Day/Month/Year	Filed		pending, abandoned
imprisonment, or both, under Sec application or any patent issued the 8th Floor, Arlington, VA 22201-44 attorneys thereof (of the same add in the Patent and Trademark Offic Vanderhye, 27076; James T. Hos Bryan H. Davidson, 30251; Stanle Lastova, 33149; H. Warren Burna Robert A. Molan, 29834; B. J. Sac Michelle N. Lester, 32331; Frank Inames/numbers no longer with the other organization sending instructions.	hereon. And on beha 714, telephone numi dress) individually and ce connected therewit mer, 30184; Robert ty C. Spooner, 27393 m, Jr. 29366; Thomas doff, 36663; James D. P. Presta, 19828; Jos e firm and to act and	If of the owner(s) hereof, I hereof, I here (703) 816-4000 (to who do collectively owner's/owner h and with the resulting pate V. Faris, 31352; Richard G.: Leonard C. Mitchard, 2900; E. Byrne, 32205; Mary J. S. Berquist, 34776; Updeep Steph S. Presta, 35329. I also rely solely on instructions di	ereby appoint NIXON and all communication of attorneys to prosecut. Arthur R. Crawford Besha. 22770; Mark Byers, 33 Wilson, 32955; J. Scotto. Gill, 37334; Michael of authorize Nixon & Varectly communicated f	& VANDERHYE is are to be directed this application, 25327; Larry Siz. Nusbaum. 323 (363; Jeffry H. Nitt Davidson, 3348) J. Shea, 34725; anderhye to dele	P.C., 1100 North Glebe Rd., ected), and the following in and to transact all business. Nixon. 25640; Robert A. 48; Michael J. Keenan, 32106; elson, 30481; John R. 89; Alan M. Kagen, 36178; Donald L. Jackson, 41090; te any attorney
other organization serioning matrice	LIONS TO THIXON GOVERN	derifye on behall of the own	si(S):		1 1
Inventor's Signature:		بتاسعين کا کرم	<u></u>	Date:	AH HAM CEDI
Inventor:	ANDREW	J	GARMA	N	¹ British
Residence: (city)	(first) Cheshire	MI	(last) (state/country) U	nited Kingdom	(citizenship)
Post Office Address:		clesfield. Cheshire, SK10 4		inted Kingdom	
(Zip Code)			. C. Cinica Hangsoni		
Inventor's Signature:				Date: _	
Inventor:	(Fant)		7 . 4		1
Residence: (city)	(first)	MI	(last) (state/country)		(citizenship)
Post Office Address:			(State/Country)		
(Zip Code)			·		
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FOR ADDITIONAL INV	JENITODE ala	alchon Dandatte	المالية المالية	:	
G. for each.	/ LINTOKS, CHEC	ck box and attac	ii sneet with sam	ie informatio	on and signature and

Our Ref.: 3764-78

RECORDATION FORM COVER SHEET

PATENTS ONLY

Commissioner of Patents and Trademarks Assignment, Washington, D.C. 20231

the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
Name of conveying party(ies):	2. Name and address of receiving party(ies):				
Andrew J. Garman	Name: AstraZeneca AB Internal Address: Street Address: S-151 85				
Additional name/s of conveying party/ies attached? 3. Nature of conveyance:	City: Sodertalje				
Assignment Merger	State/Country: Sweden				
Security Assignment Change of Name Other	Zip:				
Execution Date: April 4, 2001	Additional name/s & address/es attached? Yes No				
Application number(s) or patent number(s): If this document is being filed together with a new application, the execution	n date of the application is:				
A. Patent Application No(s).	B. Patent No(s).				
(1) 09/763,827	(1)				
(2)	(2)				
(3)	(3)				
5. Name and address of party to whom correspondence	tached Yes No 6. Total number of applications & patents involved: 1				
concerning document should be mailed:	o. Total liumber of applications & pateins involved.				
concerning accument should be marica.	7. Total fee (37 CFR 3.41) \$ 40.00				
Name: Leonard C. Mitchard	⊠ Enclosed				
	Authorized to be charged to deposit account #14-1140				
Internal Address:					
	8. The Commissioner is hereby authorized to charge any				
Street Address: Nixon & Vanderhye P.C.	deficiency in the fee(s) filed, or asserted to be filed, or which				
1100 North Glebe Road	should have been filed herewith (or with any paper thereafter				
State: VA Zip: 22201	filed in this application by this firm) to our Account No. 14-1140.				
DO NOT USE THIS SPACE					
9. Statements and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy					
of the original document.					
Leonard C. Mitchard	April 23, 2001				
	mature Date				
Reg. No. 29,009					
	nal cover sheet, attachments, and document: [3]				

ASSIGNMENT FOR PATENT APPLICATION (All Rights)

WHEREAS, ANDREW JOHN GARMAN. (hereinafter Assignor of) Alderley Park, Macclesfield, Cheshire, SK10 4TG, United Kingdom, respectively, has invented a certain improvement in DEVICE COMPRISING A MICROFABRICATED DIFFUSION CHAMBER for which a so-entitled application for Letters Patent of the United States is being concurrently executed herewith; was filed in the United States Patent and Trademark Office on under Serial No.

WHEREAS, AstraZeneca AB (hereinafter ASSIGNEE), a corporation of the State of Sweden, having an office and place of business at S-151 85, Sodertalje, Sweden is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell. assign. and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives. ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres; and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and

agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

April 4, 2001

Date

Witnessed by:

Name:

ANDREW JOHN GARMAN

Ht. April 2001

Date: